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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/627,487	07/25/2003	Timothy R. Machold	RADME-64498	4201
24201 FULWIDER PA	7590 03/03/200 ATTON LLP	EXAMINER		
	GHES CENTER	NASSER, ROBERT L		
LOS ANGELES	DRIVE, TENTH FLOOR S, CA 90045		ART UNIT	PAPER NUMBER
			3735	
			MAIL DATE	DELIVERY MODE
			03/03/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/627,487	MACHOLD ET AL.
Office Action Summary	Examiner	Art Unit
	ROBERT L. NASSER	3735
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on 10 D 2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for alloware closed in accordance with the practice under B	s action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 30 and 32-35 is/are pending in the ap 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 30, 32-35 are subject to restriction are	wn from consideration.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the I drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority document 2. ☐ Certified copies of the priority document 3. ☐ Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/10/2008 has been entered.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 30 is rejected under 35 U.S.C. 103 as being unpatentable over Saab 5624392 in view of Saringer 5895418, and Utterberg et al 6383158, Noda et al 6146411 and Hyatt 4800823. Saab shows a heat exchange catheter system having a heat exchange catheter, but it does not show the fluid supply structure. Saringer teaches in figures 22-24 a device to supply heat exchange fluid to a heat exchange device, a pad in this case, including a reservoir 320, a pump 314 which includes a pump head, an air vent 360 (see column 10, lines 47-50), an external heat exchanger 310, and an external fluid supply 320. The examiner notes that the fluid supply is external to the pump and heat exchanger. It would have been obvious to modify Saab to use such a fluid supply circuit, as it is merely the use of a known circuit to supply fluid to devices like Saab. The examiner notes that the embodiment is shown with all of the

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components open, with a housing 28 as shown in figure 1. The examiner takes official notice that it is well know to provide a cover, or bulkhead, on such a device, to prevent damage to or contamination of the components. The combination does not have vents that do not allow passage of liquid. Utterberg further teaches a hydrophobic vent is another known method to eliminate air from a fluid line. Hence, it would have been obvious to modify the combination to use such a vent, as it is merely the substitution of one known equivalent air removal technique for another. The combination performs the steps of the method in claim 30. Noda further teaches providing a level sensor in the fluid supply circuit and shutting off the fluid when the level is too low. As such, it would have been obvious to modify the combination to us ea fluid level sensor, to ensure patient safety. The combination does not activate a valve to add fluid into the circuit. Hyatt is select from many references that teach refilling a fluid circuit when the levels are too low by opening a valve in response to the level sensor. Hence, it would have been obvious to modify the combination to use such a refill circuit, to eliminate the need for human interaction and to provide for continuous use.

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Claims 32-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saab in view of Saringer, and Utterberg et al, Noda, and Hyatt, as applied to claim 30 above, further in view of Leung 4548212. Leung teaches damping chambers 26 and 27 for damping pressure variations in the flow to eliminate turbulence. Hence, it would have been obvious to modify Fontenot to use such a dampener, to avoid turbulence and provide a more uniform distribution of temperature.

Claims 35 is rejected under 35 U.S.C. 103(a) as being unpatentable over Saab in view of Saringer, Utterberg et al, Noda, and Hyatt as applied to claim 30 above, further in view of Kolen et al 5980561. Kolen teaches using a constant pressure circulation pump in column 6, line 41. The examiner takes official notice that is known to drive a pump to produce constant pressure out by supplying it with constant current. Hence, it would have been obvious to modify the above combination, as it is merely the substitution of one known equivalent pump for another.

Applicant's arguments filed 12/10/2008 have been fully considered but they are not persuasive.

Applicant has asserted that Saringer's fluid supply is not disposable. The examiner notes that the term disposable merely means "capable of being thrown away" and the examiner asserts that the circuit of Saringer is indeed capable of being thrown away.

Applicant's argument that Noda does not show the details of the fluid circuit is not found convincing. Noda is a secondary teaching that only teaches providing a fluid level sensor. There is no requirement that a reference have all of the features of the claim to be useable as a teaching reference.

Applicant has further asserted that the external fluid source is different than the reservoir in the housing. The examiner notes that the external fluid source is part of the modification based on Noda and Hyatt.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ROBERT L. NASSER whose telephone number is (571)272-4731. The examiner can normally be reached on m-f 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Marmor II can be reached on 571 272-4730. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Robert L. Nasser Jr/ Primary Examiner Art Unit 3735

RLN February 27, 2009